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Approved for use through 9/30/98

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

PTO/SB/01 (8/96)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Attorney Docket Number</td> <td>3282-00026</td> </tr> <tr> <td>First Named Inventor</td> <td>Donn R. Dresselhuys</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>COMPLETE IF KNOWN</b></td> </tr> <tr> <td>Application Number</td> <td></td> </tr> <tr> <td>Filing Date</td> <td></td> </tr> <tr> <td>Group Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> </table>	Attorney Docket Number	3282-00026	First Named Inventor	Donn R. Dresselhuys	<b>COMPLETE IF KNOWN</b>		Application Number		Filing Date		Group Art Unit		Examiner Name		
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First Named Inventor	Donn R. Dresselhuys															
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<b>DECLARATION</b>																
<table style="width: 100%;"> <tr> <td style="width: 33%;">Declaration</td> <td style="width: 33%; text-align: center;">OR</td> <td style="width: 33%;">Declaration</td> </tr> <tr> <td><input type="checkbox"/> Submitted with Initial Filing</td> <td></td> <td><input type="checkbox"/> Submitted after Initial Filing</td> </tr> </table>		Declaration	OR	Declaration	<input type="checkbox"/> Submitted with Initial Filing		<input type="checkbox"/> Submitted after Initial Filing									
Declaration	OR	Declaration														
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As a below named inventor, I hereby declare that:																
My residence, post office address, and citizenship are as stated below next to my name.																
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:																
<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;">         ELECTRONIC ELECTRIC METER FOR NETWORKED METER READING       </div> <p>(Title of the Invention)</p>																
the specification of which <input type="checkbox"/> is attached hereto																
OR																
<input checked="" type="checkbox"/> was filed on (MM/DD/YYYY) <div style="border: 1px solid black; padding: 2px 20px;">5 September 1997</div> as United States Application Number or PCT																
International Number <div style="border: 1px solid black; padding: 2px 20px;">PCT/US97/15728</div> and was amended on (MM/DD/YYYY) <div style="border: 1px solid black; width: 150px; height: 20px; display: inline-block;"></div>																
(if applicable).																
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.																
I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, §1.56.																
I hereby claim foreign priority benefits under Title 35, United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designed at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.																
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Copy Attached?												
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<table style="width: 100%;"> <tr> <th>YES</th> <th>NO</th> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	YES	NO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/> Additional foreign application numbers are listed on a supplemental priority sheet attached hereto:																
I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.																
Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional Application numbers are listed on a supplemental priority sheet attached hereto.														

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DECLARATION							
<p>I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or §365© of any PCT international application designated the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States of PCT International application in the manner provided by the first paragraph of Title 35, United States Code §112. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.</p>							
U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)				
	PCT/US97/15728	September 5, 1997					
<input type="checkbox"/> Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet attached hereto.							
<p>As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:</p>							
Name		Registration Number		Name		Registration Number	
Glenn O. Starke		17,031		Edward R. Williams, Jr.		36,057	
Eugene R. Sawall		17,431		Joseph D. Kuborn		40,689	
Daniel D. Fetterley		20,323		William K. Baxter		41,606	
George H. Solveson		25,927		William L. Falk		27,709	
Gary A. Essmann		29,376					
Thomas M. Wozny		28,922					
Michael E. Taken		28,120					
Joseph J. Jochman, Jr.		25,058					
Andrew S. McConnell		32,272					
<input type="checkbox"/> Additional attorney(s) and/or agent(s) named on a supplemental sheet attached hereto.							
<input checked="" type="checkbox"/> Please direct all correspondence to: Name William K. Baxter							
Address Andrus, Scales, Starke & Sawall, LLP							
Address 100 East Wisconsin Avenue, Suite 1100							
City Milwaukee		State Wisconsin		Zip 53202-4178			
Country United States		Telephone (414) 271-7590		Fax (414) 271-5770			
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>							
<p>Name of Sole or First Inventor: <input type="checkbox"/> A petition has been filed for this unsigned inventor</p>							
Given Name (first and middle [if any])				Family Name or Surname			
LANCE A.				EHRKE			
Inventor's Signature					Date 2/23/99		
RESIDENCE: City Brookfield		State WI		Country USA		Citizenship USA	
POST OFFICE ADDRESS 18305 Bennington Drive							
City Brookfield		State WI		Zip 53045		Country USA	
<input checked="" type="checkbox"/> Additional inventors are being named on supplemental sheet(s) attached hereto.							

Please type a plus sign (+) inside this box [+]

<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S) Supplemental Sheet</b>
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<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
KIMBEL A.				NAP			
Inventor's Signature		<i>Kimbel A. Nap</i>		Date		2/23/99	
RESIDENCE: City	Glendale	State	WI	Country	USA	Citizenship	USA
POST OFFICE ADDRESS		6220 Sunny Point Road					
City	Glendale	State	WI	Zip	53217	Country	USA

<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
DONN R.				DRESSELHUYS			
Inventor's Signature		<i>Donn R. Dresselhuys</i>		Date		2/23/99	
RESIDENCE: City	Shorewood	State	WI	Country	USA	Citizenship	USA
POST OFFICE ADDRESS		3565 North Lake Drive					
City	Shorewood	State	WI	Zip	53211	Country	USA

<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Inventor's Signature				Date			
RESIDENCE: City		State		Country		Citizenship	
POST OFFICE ADDRESS							
City		State		Zip		Country	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
Group Art Unit 2635

In re

Patent Application of

Lance A. Ehrke, et al.

Application No. 09/242,792

Confirmation No. 1516

Filed: February 23, 1999

Examiner: Albert Kang Wong

"ELECTRONIC ELECTRIC METER  
FOR NETWORKED METER READING"

REVOCATION AND SUBSTITUTE POWER OF ATTORNEY

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Silver Spring Networks, Inc. ("Assignee"), a Delaware corporation, being the owner of  
all right, title and interest in the above-identified patent application by virtue of:

Assignment from Lance A. Ehrke, Kimbel A. Nap and Donn R. Dresselhuys  
to Innovatec Communications, LLC, Reel 10457 and Frames 621-624,  
recorded on December 23, 1999;

Assignment from Innovatec Communications, LLC to St Andrews Acquisitions,  
LLC, Reel 13211 and Frame 881, recorded on August 20, 2002; and

Assignment from St Andrews Acquisitions, LLC to Silver Spring Networks, Inc.,  
signed August 13, 2002, copy attached.

hereby revokes all powers of attorney previously granted in connection with said patent  
application and hereby appoints the registered practitioners associated with the customer number  
identified below to prosecute this application and to transact all business in the Patent and  
Trademark Office connected therewith.

Customer Number



23409

PATENT TRADEMARK OFFICE

The undersigned hereby states that the evidentiary documents have been reviewed, and certifies that, to the best of Assignee's knowledge and belief, title is in Assignee and that the undersigned is an officer of Assignee and has authority to execute this document on behalf of Assignee.

Please send all further correspondence to:

Thomas A. Miller  
Michael Best & Friedrich LLP  
100 East Wisconsin Avenue  
Milwaukee, Wisconsin 53202-4108  
Telephone: (414) 271-6560

Silver Spring Networks, Inc.

Dated:

December 17, 2002

Thomas F. Schrader  
Chief Operating Officer

File No.: 086485-9002-00

## ASSIGNMENT

WHEREAS, St Andrews Acquisitions, LLC, a Wisconsin limited liability company (the "Assignor") owns the rights to certain patents and trademarks;

WHEREAS, Silver Spring Networks, Inc., a Delaware corporation (the "Assignee") owns all of the issued and outstanding membership interests of Assignor and is the corporate parent of Assignor; and

WHEREAS, Assignor desires to assign its patents and trademarks to Assignee;

NOW THEREFORE, for good and valuable consideration, the adequacy of which is hereby acknowledged, Assignor does hereby assign unto Assignee and Assignee's legal representatives, successors, and assigns, the entire right, title, and interest in and to the inventions, applications and the letters patent, both of the United States and of other countries, set forth on the attached Schedule A and the trademark registrations, trademark applications, common law trademarks and goodwill associated therewith, both of the United States and of other countries, set forth on the attached Schedule B.

UPON SAID CONSIDERATION, Assignor does hereby covenant with Assignee that Assignor will not execute any writing or do any act whatsoever conflicting with this Assignment, and that Assignor will, at any time upon request, without further or additional consideration, but at the expense of Assignee, execute such additional assignments and other writings and do such additional acts as Assignee may deem necessary or desirable to perfect Assignee's enjoyment of this Assignment, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

\* \* \* \* \*

IN WITNESS WHEREOF, the undersigned have executed this Assignment to be effective as of August 13, 2002.

**ASSIGNOR:**

**ASSIGNEE:**

ST ANDREWS ACQUISITIONS, LLC

SILVER SPRING NETWORKS, INC.

By: 

Jack Thompson, Manager

By: \_\_\_\_\_

Keith Burge, President

IN WITNESS WHEREOF, the undersigned have executed this Assignment to be effective as of August 13, 2002.

ASSIGNOR:

ASSIGNEE:

ST ANDREWS ACQUISITIONS, LLC

SILVER SPRING NETWORKS, INC.

By: \_\_\_\_\_  
Jack Thompson, Manager

By:  \_\_\_\_\_  
Keith Burge, President



**Schedule A**

**List of Patents**

**Title: Improved Meter for Measuring Volumetric Consumption of a Commodity**

**Country: USA**

**Inventors: Dean Dresselhuys, Kimbel Nap and Lance Ehrke**

**Patent Number: 5,659,300**

**Issue Date: 5/19/97**

**Summary:** This patent covers the inductive coupling between a meter located in a pit and an antenna mounted to a pit lid.

**Title: Automatic Meter Reading Data Communication System**

**Inventors: Dean Dresselhuys, Kimbel Nap and Lance Ehrke**

**Country: USA**

**Patent Number: 6,246,677**

**Issue Date: June 12, 2001**

**Country: Mexico**

**Serial Number: 991134**

**Filing Date: 3/4/99**

**Country: Canada**

**Serial Number: 2264796**

**Filing Date: 3/3/99**

**Country: Europe**

**Serial Number: 97940306.9**

**Filing Date: 3/31/99**

**Country: Japan**

**Serial Number: 512892/1998**

**Filing Date: 3/30/99**

**Summary:** This patent covers the interface management unit (IMU) and the way the IMU attaches to a meter and transmits information to a gateway unit.

**Title: Electronic Electric Meter for Networked Meter Reading**

**Inventors: Dean Dresselhuys, Kimbel Nap and Lance Ehrke**

**Country: USA**

**Serial Number: 09/242,742**

**Filing Date: 2/23/99**

**Country:** Mexico  
**Serial Number:** 992132  
**Filing Date:** 3/4/99

**Country:** Canada  
**Serial Number:** 2264913  
**Filing Date:** 3/3/97

**Country:** Europe  
**Serial Number:** 97940881.2  
**Filing Date:** 3/31/99

**Country:** Japan  
**Serial Number:** 512968/1958  
**Filing Date:** 3/30/99

**Summary:** This patent covers the electronic electric meter and the communication methods to the gateway node and between the electric meter and possible gas and water meters.

**Title:** Flush Mounted Pit Lid Antenna

**Inventors:** Kimbel Nap and Eric Drexelhuyts

**Country:** USA  
**Serial Number:** 09/791,372  
**Filing Date:** 2/23/01

**Summary:** This patent will cover a pit lid antenna that is flush with the top of a pit lid while still allowing for an acceptable broadcast range.

Patent No.	Issue Date
6,369,769	04/09/2002
6,246,677	06/12/2001
5,659,300	08/19/1997

**Schedule B**

**List of Trademarks**

Trademark Number	Issue/Filing Date
AXISPORTAL 2,560,280	04/09/2002
AXISPATH 2,557,288	04/02/2002
AXISQ/ATE 76/118,561	08/29/2000
POWERPOINT 76/118,558	08/29/2000
INTERFACE MANAGEMENT UNIT 76/118,559	08/29/2000
INNOVATEC 2,281,957	09/28/1999